

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39399

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01R 39/00

US CL : 439/13, 21-26, 102, 248, 537, 953

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 439/13, 21-26, 102, 248, 537, 953

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
None

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A          | US 2,313,481 (L. RENDANO) 09 March 1943 (09.03.1943), see entire document.         | 1, 2 and 7            |
| A          | US 3,118,713 (W. A. ELLIS) 21 January 1964 (21.01.1964), see entire document.      | 1-3 and 5-7           |
| A          | US 3,193,636 (C. W. DANIELS) 06 July 1965 (06.07.1965), see entire document.       | 1, 2 and 7            |
| A          | US 3,798,584 (PERSON) 19 March 1974 (19.03.1974), see entire document.             | 1, 6 and 7            |
| A          | US 3,808,577 (MATHAUSER) 30 April 1974 (30.04.1974), see entire document.          | 1, 2, 6 and 7         |
| A          | US 5,836,781 (HYZIN) 17 November 1998 (17.11.1998), see columns 1 and 2.           | 3 and 5               |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

05 April 2005 (05.04.2005)

Date of mailing of the international search report

24 JUN 2005

Name and mailing address of the ISA/US

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